

Order Nesting
Enterprise Software for the
Metals Industry



Order Nesting

I have the order in hand now how do I best fill that order?

The challenge becomes how to best utilize existing inventory to satisfy the demand. Service Centers find that set-up time is greatly reduced and machine utilization increased by consolidating orders wherever possible. Verticent has worked closely with their customer's to deliver the most complete workbench to help users optimize long product/plate when defining cut-to-length and determining plate cut patterns.

Utilizing the optimizer empowers your users to have the system help you match material with cut orders. Companies establish rules and parameters and then Verticent will automatically identify all material that satisfies the customer specification. Verticent shows what processed material goes with each order as well as remnants to go back to stock and calculates material to be scrapped.

Material Selection For Order No :100281-1 Lot : 000 Operation :100

6061FL020001561-- 6061 1561 2.00 Plate

Attributes: Chemical Physical

Double Clicking Order No or Move ticket will update similar order number or move ticket with the same Rel/All value

Ship Loc	Name	Workcenter	Total Setup Minutes	Total Run Minutes
PC	Perfect Customer Co	120		

Onhand	Total Reserved	Qty Avail	Kerf	Settings
138,735	11,244	127,393	5	01

MT	Order No	Lot	Customer	PCS	Width	Length	TOL	Ship Date	Setup	Tot Hrs	Hrs/LB	Work Center	Rel/All	PC	WT
195915	100279-2	000	Fluid Routing Solution	2	24	24	-.025	12/5/2008	0.25		0.001177	120			112.896
195915	100280-1	000	SENN CONSTRUCT	3	12	18	-.025	12/12/2008	0		0.0001900	120			42.336
195915	100280-1	000	SENN CONSTRUCT	2	14	16	-.025	12/5/2008	0		0.0001900	120			43.904
195915	100281-1	000	AKRON HYDRAULIC	6	32	32	-.025	12/9/2008	0		0.003529	120			200.704
195915	100281-1	000	AKRON HYDRAULIC	6	36	36	-.025	12/9/2008	0		0.003529	120			254.016
195915	100281-1	000	AKRON HYDRAULIC	5	26	28	-.025	12/9/2008	0.25		0.003529	120			142.688
195915	100287-2	000	AKRON HYDRAULIC	6	12	12	-.025	12/15/2008							28.224
195915	100287-2	000	AKRON HYDRAULIC	5	24	24	-.025	12/15/2008	0		0.0001900	120			112.896
195915	100287-2	000	AKRON HYDRAULIC	8	35	42	-.025	12/15/2008							288.12
195915	100287-2	000	AKRON HYDRAULIC	6	32	32	-.025	12/15/2008	0		0.003529	120			200.704
195915	100288-2	000	AKRON HYDRAULIC	4	36	36	-.025	12/15/2008	0		0.003529	120			254.016
195915	100288-2	000	AKRON HYDRAULIC	5	24	24	-.025	12/15/2008	0.25		0.003529	120			112.896

Benefits from Verticent Nesting:

- Real-time information on all material in-house and on order
- Cross reference Material attributes and characteristics with the customer's specification.
- Material Optimization accurately determines all material that meets the customer order whether it's a simple cut, slit, fabrication, or nested order.
- Providing visual confirmation of the work to be performed.
- Using up valuable non standard sizes to significantly improve the bottom line on margin.

Verticent provides you this information real-time so that all the guess work goes out of the equation. Matching inventory with customer demand is one of the key contributors to company profitability. The last thing you want is people spending time on information that is old or incorrect only to learn later that the material was already consumed by another demand. Verticent is the solution to current information goals and eliminates non-value add manual steps.

Nesting is only one piece in Verticent's answer to delivering to most complete business solution for the metals industry. Find out more how Verticent can now take this information and apply this to help in Scheduling? Inventory Management? Customer Service? On-time shipments? Integration to Level II Solutions?

Work Order Detail - Layout

Material To Use: 5/8" X 10 CR1/4H PLATE Item: P110006250CR1/4H

Heat No.	No. Of Pieces to Pull	Lbs Req'd	MT Size	Location	MT
12345	1	1016	48.5 X 99.75	01-A-1	190072

Once you have determined the demand, Verticent automatically selects all the applicable material that can be consumed and determines the exact lengths and widths; Verticent will provide visual confirmation of the work to be done.

Order-Line No	Part	PCS	WIDTH	LENGTH	As Cut Size/Weight/PCS	Q/C
100596-1	1	2	12.000	X 18.000		

PIECES = 2.0 WIDTH = 12.0 LENGTH = 18.0 GAUGE = 0.025 GAUGE MIN = 0.033 GAUGE MAX = 0.037 Tolerance = 0.25 FORM = Cut To Size DGCS = MTR with Shipment PACKING = Size BULK = 0.28333 ORDERQTY = 7.0

Next Oper Process Key COMPLETE Work Center

As you can see the information below shows each job that is combined to be consumed on the one piece of plate. Giving the shop floor personnel not only the visual confirmation but the exact specs that were provided by your customer.